

APPENDIX J

**SADIS STRATEGIC ASSESSMENT TABLES
CURRENT AND PROJECTED DATA VOLUMES 2003-2007**

Note 1.— 1 octet = 1 byte = 1 character;

Note 2.— low level (SWL) <FL 100; medium level (SWM): FL100 – FL 250; high level (SWH): >FL 250.

Table 1. AFI— OPMET data volumes

Main routing(s): AFTN, Two-way, direct line (GTS)

<i>OPMET data</i>	<i>Current 2003</i>	<i>Projected 2004</i>	<i>Projected 2005</i>	<i>Projected 2006</i>	<i>Projected 2007</i>
ALPHANUMERIC DATA					
Number of FC bulletins issued per day	168	100	100	100	
Average number of stations per FC bulletin	8	8	8	8	
Number of FT bulletins issued per day	333	500	500	500	
Average number of stations per FT bulletin	6	6	6	6	
Number of SA bulletins issued per day	1977	600	650	700	
Average number of stations per SA bulletin	15	15	15	15	
Number of SP bulletins issued per day	0	0	0	0	
Number of SIGMET bulletins issued per day	43	30	35	35	
Number of FK/FV bulletins issued per day	0				
BINARY DATA					
Number of other bulletins issued per day	0	0	0	0	
(please specify header(s))					
Average number of stations per bulletin	0	0	0	0	
TOTALS					
Total number of OPMET bulletins per day	2521	1230	1285	1335	
Average size of OPMET bulletin (bytes)	500	500	500	500	
Total estimated OPMET data volume per day (bytes)	1260K	615K	642K	667K	

Table 2. AFI — BUFR data volumes

Main routing(s): Two-way SADIS, GTS

<i>BUFR SIGWX MESSAGES</i>	<i>Current 2003</i>	<i>Projected 2004</i>	<i>Projected 2005</i>	<i>Projected 2006</i>	<i>Projected 2007</i>
WMO Header	DAKAR	DAKAR	DAKAR	DAKAR	
Time(s) of issue of data (UTC)	—	0700,1300, 1900,0100	0700,1300, 1900,0100	0700, 1300, 1900, 0100	
Average size of message (bytes)	—	15K	15K	15K	
Data level (e.g. FL range or low (SWL)/medium level (SWM))	—	SWL/SWM	SWL/SWM	SWL/SWM	
Validity time(s) of data VT (UTC)	—	1200,1800, 0000,0600	1200,1800, 0000,0600	1200, 1800, 0000, 0600	
WMO Header	PRETORIA	PRETORIA	PRETORIA	PRETORIA	
Time(s) of issue of data (UTC)	—	0700,1300, 1900,0100	0700,1300, 1900,0100	0700, 1300, 1900, 0100	
Average size of message (bytes)	—	15K	15K	15K	
Data level (e.g. FL range or low (SWL)/medium level (SWM))	—	SWL/SWM	SWL/SWM	SWL/SWM	
Validity time(s) of data VT (UTC)	—	1200,1800, 0000,0600	1200,1800, 0000,0600	1200, 1800, 0000, 0600	
TOTALS					
Total number of BUFR messages per day	0	8	8	8	
Average size of messages (bytes)	0	15K	15K	15K	
Total estimated volume of BUFR messages per day (bytes)	0	120K	120K	120K	

Note 3.— It is assumed that only 2 sites will have the capacity to send BUFR information to WAFIC

London.

Table 3. AFI — AIS data volumes

Main routing(s): AFTN, two-way SADIS

<i>AIS</i> (Subject to statement of an operational requirement)	<i>Current</i> 2003	<i>Projected</i> 2004	<i>Projected</i> 2005	<i>Projected</i> 2006	<i>Projected</i> 2007
ALPHANUMERIC AIS DATA (e.g. NOTAMs, ASHTAMs)					
Bulletin type	—	NOTAM	NOTAM	NOTAM	
Number of bulletins issued per day	0	300	300	300	
Average size of each bulletin (bytes)	0	400	400	400	
Bulletin type					
Number of bulletins issued per day					
Average size of each bulletin (bytes)					
CHART AIS DATA (e.g. AIP CHARTS)					
Header number/Chart type (e.g. AIP)	—	AIP	AIP	AIP	
Time(S) of issue of chart (UTC)	0	4	4	4	
Average size of chart (bytes)	0	100	100	100	
Validity time of chart VT(UTC)					
Header number/Chart type (e.g. AIP)					
Time(S) of issue of chart (UTC)					
Average size of chart (bytes)					
Validity time of chart VT(UTC)					
TOTALS					
Total number of AIS bulletins per day					
Average size of AIS bulletin (byte)					
Total number of AIS charts issued per day					
Average size of AIS chart (byte)					
Total estimated volume of AIS data per day (bytes)	0K	520K	520K	520K	

Table 4. ASIA— OPMET data volumes

Main routing(s): AFTN, direct line (GTS)

<i>OPMET data</i>	<i>Current 2003</i>	<i>Projected 2004</i>	<i>Projected 2005</i>	<i>Projected 2006</i>	<i>Projected 2007</i>
ALPHANUMERIC DATA					
Number of FC bulletins issued per day	106	300	310	310	
Average number of stations per FC bulletin	6	6	6	6	
Number of FT bulletins issued per day	211	375	380	380	
Average number of stations per FT bulletin	6	6	6	6	
Number of SA bulletins issued per day	1448	1670	1700	1700	
Average number of stations per SA bulletin	6	6	6	6	
Number of SP bulletins issued per day	0	50	50	50	
Number of SIGMET bulletins issued per day	25	50	50	50	
Number of FK/FV bulletins issued per day	4				
BINARY DATA					
Number of other bulletins issued per day	0	0	0	0	
(please specify header(s))					
Average number of stations per bulletin	0	0	0	0	
TOTALS					
Total number of OPMET bulletins per day	1794	2445	2490	2490	
Average size of OPMET bulletin (bytes)	350	350	350	350	
Total estimated OPMET data volume per day (bytes)	628K	856K	872K	872K	

Table 5. ASIA — BUFR data volumes

Main routing(s): Two-way SADIS/GTS

<i>BUFR SIGWX messages</i>	<i>Current 2003</i>	<i>Projected 2004</i>	<i>Projected 2005</i>	<i>Projected 2006</i>	<i>Projected 2007</i>
WMO Header		One two-way site	One two-way site	One two- way site	
Time(s) of issue of data (UTC)	No requirement	0700, 1300, 1900, 0100	0700, 1300, 1900, 0100	0700, 1300, 1900, 0100	
Average size of message (bytes)		15K	15K	15K	
Data level (e.g. FL range or low (SWL)/medium (SWM) level)		SWL/SWM	SWL/SWM	SWL/SWM	
Validity time(s) of data VT (UTC)		1200, 1800, 0000, 0600	1200, 1800, 0000, 0600	1200, 1800, 0000, 0600	
TOTALS					
Total number of BUFR messages per day		4	4	4	
Average size of messages (bytes)		15K	15K	15K	
Total estimated volume of BUFR messages per day (bytes)		60K	60K	60K	

Note 4.— It is assumed that only one site will have the capacity to send BUFR information to WAFC London.

Table 6. ASIA — AIS data volumes

Main routing(s): AFTN, Two-Way SADIS

<i>AIS</i> (Subject to statement of an operational requirement)	<i>Current</i> 2003	<i>Projected</i> 2004	<i>Projected</i> 2005	<i>Projected</i> 2006	<i>Projected</i> 2007
ALPHANUMERIC AIS DATA (e.g. NOTAMs, ASHTAMs) Bulletin type Number of bulletins issued per day Average size of each bulletin (bytes) Bulletin type Number of bulletins issued per day Average size of each bulletin (bytes) CHART AIS DATA (e.g. AIP CHARTS) Header number/Chart type (e.g. AIP) Time(S) of issue of chart (UTC) Average size of chart (bytes) Validity time of chart VT(UTC) Header number/Chart type (e.g. AIP) Time(S) of issue of chart (UTC) Average size of chart (bytes) Validity time of chart VT(UTC) TOTALS Total number of AIS bulletins per day Average size of AIS bulletin (byte) Total number of AIS charts issued per day Average size of AIS chart (byte) Total estimated volume of AIS data per day (bytes)	From the two-way site				
	No requirement	No requirement	No requirement	No requirement	

Table 7. EUR— OPMET data volumes

Main routing(s): AFTN, Two-way, direct line (GTS)

<i>OPMET data</i>	<i>Current 2003</i>	<i>Projected 2004</i>	<i>Projected 2005</i>	<i>Projected 2006</i>	<i>Projected 2007</i>
ALPHANUMERIC DATA					
Number of FC bulletins issued per day	1797	2070	2080	2090	
Average number of stations per FC bulletin	7	7	7	7	
Number of FT bulletins issued per day	812	650	670	680	
Average number of stations per FT bulletin	7	7	7	7	
Number of SA bulletins issued per day	7873	9550	9600	9650	
Average number of stations per SA bulletin	12	12	12	12	
Number of SP bulletins issued per day	181	170	180	190	
Number of SIGMET bulletins issued per day	109	70	80	90	
Number of FV bulletins issued per day	0				
Number of GAMET/AIRMET bulletins per day	85				
BINARY DATA					
Number of other bulletins issued per day	0	0	0	0	
(please specify header(s))					
Average number of stations per bulletin	0	0	0	0	
TOTALS					
Total number of OPMET bulletins per day	10846	12520	12610	12710	
Average size of OPMET bulletin (bytes)	300	300	300	300	
Total estimated OPMET data volume per day (bytes)	3254K	3756K	3783K	3813K	

Table 8. EUR — BUFR data volumes

Main routing(s): Two-way SADIS/GTS

<i>BUFR SIGWX messages</i>	<i>Current 2003</i>	<i>Projected 2004</i>	<i>Projected 2005</i>	<i>Projected 2006</i>	<i>Projected 2007</i>
WMO Header	Three sites				
Time(s) of issue of data (UTC)	—	0700,1300, 1900, 0100	0700, 1300, 1900, 0100		
Average size of message (bytes)	0	15K	15K		
Data level (e.g. FL range or low (SWL)/medium (SWM) level)	—	SWL/SWM	SWL/SWM		
Validity time(s) of data VT (UTC)	—	1200, 1800, 0000, 0600	1200, 1800, 0000, 0600		
WMO Header					
Time(s) of issue of data (UTC)	—	0700,1300, 1900, 0100	0700,1300, 1900,0100		
Average size of message (bytes)	0	15K	15K		
Data level (e.g. FL range or low (SWL)/medium (SWM) level)	—	SWL/SWM	SWL/SWM		
Validity time(s) of data VT (UTC)	—	1200, 1800, 0000, 0600	1200, 1800, 0000, 0600		
WMO Header					
Time(s) of issue of data (UTC)	—	0700,1300, 1900, 0100	0700,1300, 1900, 0100		
Average size of message (bytes)	0	15K	15K		
Data level (e.g. FL range or low (SWL)/medium (SWM) level)	—	SWL/SWM	SWL/SWM		
Validity time(s) of data VT (UTC)	—	1200, 1800, 0000, 0600	1200, 1800, 0000, 0600		
TOTALS					
Total number of BUFR messages per day	0	12	12	-	
Average size of messages (bytes)	0	15K	15K	-	
Total estimated volume of BUFR messages per day (bytes)	0	180K	180K	-	

Note 5.— It is assumed that three sites will have the capacity to send BUFR information to WAF C London.

Table 9. EUR — AIS data volumes

Main routing(s): AFTN, Two-Way SADIS

<i>AIS</i> (Subject to statement of an operational requirement)	<i>Current</i> 2003	<i>Projected</i> 2004	<i>Projected</i> 2005	<i>Projected</i> 2006	<i>Projected</i> 2007
ALPHANUMERIC AIS DATA (e.g. NOTAMs, ASHTAMs) Bulletin type Number of bulletins issued per day Average size of each bulletin (bytes) Bulletin type Number of bulletins issued per day Average size of each bulletin (bytes) CHART AIS DATA (e.g. AIP CHARTS) Header number/Chart type (e.g. AIP) Time(S) of issue of chart (UTC) Average size of chart (bytes) Validity time of chart VT(UTC) Header number/Chart type (e.g. AIP) Time(S) of issue of chart (UTC) Average size of chart (bytes) Validity time of chart VT(UTC) TOTALS Total number of AIS bulletins per day Average size of AIS bulletin (byte) Total number of AIS charts issued per day Average size of AIS chart (byte) Total estimated volume of AIS data per day (bytes)	From the two-way sites				
	No requirement	No requirement	No requirement	No requirement	

Table 10. MID— OPMET data volumes

Main routing(s): AFTN

<i>OPMET data</i>	<i>Current 2003</i>	<i>Projected 2004</i>	<i>Projected 2005</i>	<i>Projected 2006</i>	<i>Projected 2007</i>
ALPHANUMERIC DATA					
Number of FC bulletins issued per day	46	30	35	40	
Average number of stations per FC bulletin	7	7	7	7	
Number of FT bulletins issued per day	153	135	140	145	
Average number of stations per FT bulletin	7	7	7	7	
Number of SA bulletins issued per day	595	890	910	930	
Average number of stations per SA bulletin	12	12	12	12	
Number of SP bulletins issued per day	8	20	20	20	
Number of SIGMET bulletins issued per day	6	12	14	16	
Number of FK bulletins issued per day	0				
BINARY DATA					
Number of other bulletins issued per day	0	0	0	0	
(please specify header(s))					
Average number of stations per bulletin	0	0	0	0	
TOTALS					
Total number of OPMET bulletins per day	808	1087	1119	1151	
Average size of OPMET bulletin (bytes)	313	313	313	313	
Total estimated OPMET data volume per day (bytes)	253K	340K	350K	360K	

Table 11. MID — BUFR data volumes

Main routing(s): Two-way SADIS/GTS

<i>BUFR SIGWX messages</i>	<i>Current 2003</i>	<i>Projected 2004</i>	<i>Projected 2005</i>	<i>Projected 2006</i>	<i>Projected 2007</i>
WMO Header	No requirement				
Time(s) of issue of data (UTC)					
Average size of message (bytes)					
Data level (e.g. FL range or low (SWL)/medium (SWM) level)					
Validity time(s) of data VT (UTC)					
TOTALS					
Total number of BUFR messages per day					
Average size of messages (bytes)					
Total estimated volume of BUFR messages per day (bytes)					

Table 12. MID — AIS data volumes

Main routing(s): AFTN, Two-Way SADIS

<i>AIS</i> (Subject to statement of an operational requirement)	<i>Current</i> 2003	<i>Projected</i> 2004	<i>Projected</i> 2005	<i>Projected</i> 2006	<i>Projected</i> 2007
ALPHANUMERIC AIS DATA (e.g. NOTAMs, ASHTAMs) Bulletin type Number of bulletins issued per day Average size of each bulletin (bytes) Bulletin type Number of bulletins issued per day Average size of each bulletin (bytes) CHART AIS DATA (e.g. AIP CHARTS) Header number/Chart type (e.g. AIP) Time(S) of issue of chart (UTC) Average size of chart (bytes) Validity time of chart VT(UTC) Header number/Chart type (e.g. AIP) Time(S) of issue of chart (UTC) Average size of chart (bytes) Validity time of chart VT(UTC) TOTALS Total number of AIS bulletins per day Average size of AIS bulletin (byte) Total number of AIS charts issued per day Average size of AIS chart (byte) Total estimated volume of AIS data per day (bytes)	No requirement				
